Title (en)
FAST TWO DIMENSIONAL OBJECT LOCALIZATION BASED ON ORIENTED EDGES

Title (de)
SCHNELLE ZWEIDIMENSIONALE OBJEKTLOKALISIERUNG AUF DER BASIS ORIENTIERTER RûNDER

Title (fr)
LOCALISATION RAPIDE D'UN OBJET BIDIMENSIONNEL BASEE SUR DES CONTOURS ORIENTES

Publication
EP 1547014 A2 20050629 (EN)

Application
EP 03799270 A 20030827

Priority
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• US 26276202 A 20021002

Abstract (en)
[origin: US2004066964A1] A method for object localization comprises defining an edge model for object localization, and searching an image for an object matching the edge model. Searching comprises defining a region of interest, including a portion of the object, sub-sampling the region of interest, and extracting an edge image comprising edges from the region of interest. Searching further comprises thinning at least one edge of the edge image, determining a distance map between the image and the edge image according to a distance transformation, and matching the edge model to the edge image within a search area defined according to the distance map.

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G06T 7/00; G06K 9/00

IPC 8 full level
G06K 9/64 (2006.01); **G06T 5/00** (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP US)
G06T 7/12 (2016.12 - EP US); **G06T 7/155** (2016.12 - EP US); **G06T 7/75** (2016.12 - EP US); **G06V 10/752** (2022.01 - EP US); G06T 2207/20041 (2013.01 - EP US); G06T 2207/20132 (2013.01 - EP US); G06T 2207/30164 (2013.01 - EP US); Y10S 707/99936 (2013.01 - US)

Citation (search report)
See references of WO 2004032057A2

Cited by
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US 2004066964 A1 20040408; **US 7133572 B2 20061107**; CN 1685367 A 20051019; EP 1547014 A2 20050629; WO 2004032057 A2 20040415; WO 2004032057 A3 20040902

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